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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/895,868	06/29/2001	Gregory K. Myers	SRI/4483-2	5369
52197 75	7590 07/27/2005		EXAMINER	
MOSER, PATTERSON & SHERIDAN, LLP SRI INTERNATIONAL			COUSO, YON JUNG	
595 SHREWSBURY AVENUE SUITE 100 SHREWSBURY, NJ 07702			ART UNIT	PAPER NUMBER
			2625	
			DATE MAILED: 07/27/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/895,868	MYERS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Yon Couso	2625				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 16 May 2005.						
· ·	s action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-50 is/are pending in the application. 4a) Of the above claim(s) 24-43 is/are withdrawn from consideration. 5) Claim(s) 44-50 is/are allowed. 6) Claim(s) 1-4,9,13-19 and 22 is/are rejected. 7) Claim(s) 5, 6, 7, 8, 10, 11, 20, 21, 23 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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1. Applicant's arguments with respect to claims 1-4, 9, 12-19, and 22 have been considered but are most in view of the new ground(s) of rejection.

- 2. The rejection made under 35 USC 112 has been withdrawn in response to the amendment.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-4, 9, 12-19 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tyan et al (US Patent No. 6,473,517) in view of Saund et al (US Patent No. 5,764,383).

As per claims 1 and 16, Tyan teaches a method and an apparatus for recognizing text in a captured imagery, the apparatus comprising: means for detecting a

text region in the captured imagery (column 4, lines 30-41); means for adjusting the detected text region to produce a rectified image (column 4, line 42-column 6, line 60); and means for applying optical character recognition processing to the rectified image to recognize the text in the captured imagery (column 6, line 61-column 7, line 58).

Even though Tyan does not teach details on adjusting along three axes, Tyan clearly discloses capturing three-dimensional object (license plate in the car) and adjusting the detected text region to produce a rectified image (column 4, line 42-column 6, line 60). Saund discloses means for detecting a text region in the captured imagery (column 7, lines 48-52); means for adjusting along three axes the detected text region to produce a rectified image (column 7, line 52-column 8, line 57). It would have been obvious to one of ordinary skills in the art, at the time the invention was made, to incorporate what was disclosed in Saund's scanner which rectifies any distortion caused along three axes into Tyan's vehicle license plate recognition system because Tyan's license plate includes text region in a three dimensional scene where means for adjusting the detected text region produces a rectified image (column 4, line 42-column 6, line 60). Adjusting the detected text region adjusting along three axes the detected text region to produce a rectified image would improve the accuracy of the character recognition performed in the Tyan.

As per claim 2 and 17, Tyan teaches that the adjusting means computes a base line and a top line for a line of detected text within the detected text region (column 5, lines 47-67).

As per claims 3 and 18, Tyan teaches the base line and the top line correlate

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substantially to horizontal parallel lines of a rectangular bounding box that is fitted to the line of detected text (refined position image in figure 4).

As per claims 4 and 19, Tyan teaches the base line and the top line are estimated by rotating the line of detected text at various angles and then computing a plurality of horizontal projections over a plurality of vertical edge projections (column 5, lines 7-46).

As per claims 9 and 22, Tyan teaches adjusting means further computes a dominant vertical direction of character strokes for a line of detected text within the detected text region (column 5, lines 7-67).

As per claim 12, Tyan teaches binarizing the detected text region prior to applying the OCR processing step (binarized image in figure 4).

As per claim 13, Tyan discloses on applying agglomeration processing subsequent to the OCR processing to produce the text in the captured imagery (116 in figure 7 and column 8, line 62-column 9, line 5).

As per claim 14 Tyan does not teach details on applying lexicon processing and applying false text elimination processing subsequent to the OCR processing to produce the text in the captured imagery. However, use of lexicon to verify the OCR process is old and well-known in the art because if the merged characters forming a word would find a match in the dictionary, there is a very high chance the OCR was performed correctly (official notice).

As per claim 15, Tyan discloses applying false text elimination processing subsequent to the OCR processing to produce the text in the captured imagery (column

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9, lines 54-55).

- 4. Claims 5, 6, 7, 8, 10, 11, 20, 21 and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 44-50 are allowed.
- 6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yon Couso whose telephone number is (571) 272-7448. The examiner can normally be reached on Monday through Friday from 8:30 to 5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta, can be reached on (571) 272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YJC

July 19, 2005